

**complete clean copy of the substitute
claims**

1 **Claim 1 through Claim 28 (cancelled)**

1 **Claim 29. (new)** A combination of compounds formulated to coat the inside
2 of a fluorescent lamp to emit light having a spectral distribution to enhance
3 effective pupil lumens comprising: strontium boride, yttrium oxide, barium
4 yttrium oxide, europium, terbium, barium borate and calcium having a peak
5 luminescence in the scotopic range, wherein the percentages by weight of
6 the combination of compounds are about 46 percent strontium boride,
7 about 24 percent each of yttrium oxide and barium yttrium oxide, about 2
8 percent each of europium and terbium, and about 1 percent each of barium
9 borate and calcium.

1 **Claim 30. (new)** The combination of compounds of Claim 29 wherein the
2 effective pupil lumens per watt is about 44.509.

1 **Claim 31. (new)** The combination of compounds of Claim 30 wherein the
2 scotopic lumen to the photopic lumen ratio is about 2.31.

1 **Claim 32. (new)** The combination of compounds of Claim 29 wherein the
2 major peak is between 490 and 560 nanometers.

1 **Claim 33. (new)** The combination of compounds of Claim 32 wherein the
2 minor peak is between 590 and 630 nanometers.

- 1 **Claim 34. (new)** The combination of compounds of Claim 33 wherein the
- 2 trough is between 560 and 590 nanometers.